

What is claimed is:

1. A helmet having an opening type chin protection bar, comprising:

a helmet body 1 having a face protection opening 2 in a front side;

a chin protection bar 4 designed to protect a user's chin by blocking a part
5 of the opening 2 of the helmet body 1;

a shield 3 for shielding the remaining portions of the opening 2 on an
upper side of the chin protection bar 4;

a hinge mechanism 400 engaged to be rotatable in the upper and lower
directions by engaging the chin protection bar 4 to the left and right sides of the
10 helmet body 1 and not exposed to the outside by inserting a hinge bolt 410 in a
direction from the inner side of the helmet body 1 to the outer side; and

a locking mechanism 500 designed to rotate the chin protection bar 4 in
the upper and lower directions with respect to the hinge bolt 410 of the hinge
mechanism 400 as a shaft wherein the chin protection bar 4 is locked in a lowered
15 state, and is unlocked for its lifting operation.

2. The helmet of claim 1, wherein said hinge mechanism 400 includes:

a female screw 421 symmetrically attached to left and right inner sides of
the chin protection bar 4 wherein the female screw is engaged and embedded;

20 an engaging plate 420 having a guide rib 422 provided in a surrounding
portion of the female screw 421; and

a hinge bolt 410 engaged with the female screw 421 and having a spacer 411.

3. The helmet of claim 2, wherein said screw guide rib 422 includes a plurality of protrusions 424 and grooves 423, and said spacer 411 includes protrusions 412 corresponding to the protrusions 424 and grooves 423 for thereby preventing a screw 421 from loosening when assembled with each other.

4. The helmet of claim 2, wherein said screw guide rib 422 includes a plurality of protrusions 424 and grooves 423 formed in a radial shape, and one protrusion among the protrusions 424 is formed higher than others, so that the protrusions 412 of the spacer 411 are easily inserted into the grooves 423 of the screw guide rib 422.

5. The helmet of claim 1, wherein said locking mechanism 500 includes:
a pair of fixtures 510 symmetrically attached to both inner surfaces of the helmet body 1 and each having a locking groove 511;

left and right sliders 520 formed in such a manner that the front ends of the same are inserted into the locking grooves 511 of the fixtures 510 and are escaped from the locking grooves 511 of the same;

a slider block 530 attached to an inner side of the chin protection bar 4 for

guiding a sliding of the sliders 520 and preventing an escape of the same;

 springs 540 connected between the slider blocks 530 for a return of the sliders 520;

 a connector 550 connected along a center inner surface of the chin
5 protection bar 4 in an arc shape wherein the both ends of the connector 550 are
connected with the rear ends of the sliders 520 for concurrently operating the left
and right sliders 520; and

 a unlock lever 570 crossed in a vertical direction for forwardly pulling an
intermediate portion of the connector 550 wherein the upper end of the unlock
10 lever 570 is connected with an inner side of the chin protection bar 4, and the
lower end of the same is partially exposed to the lower side of the chin protection
bar 4.

6. The helmet of claim 5, wherein the front ends of the slider blocks 530 are
15 partially inserted into the locking grooves 511 of the fixtures 510 for preventing any
movements in the locked state.

7. The helmet of claim 5, wherein said unlock lever 570 is crossed with the
connector 550 and has a holding part 571 for preventing any movement of the
20 connector 550.